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GIET UNIVERSITY, GUNUPUR – 765022

B. C. A (Fourth Semester) Examinations, May - 2024

BCA20403 – Computer Networks

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q. 1 Answer ALL questions

	CO #	PO #
a. OSI stands for _____	CO1	PO1
i. Open system interconnection		
ii. Operating system interface		
iii. Optical service implementation		
iv. Open service internet		
b. MAN stands for:	CO1	PO1
i. Metropolitan Area Network		
ii. Minimum Area Network		
iii. Main Area Network		
iv. Maximum Area Network		
c. _____ topology requires a multipoint connection.	CO2	PO1
i. Star		
ii. Mesh		
iii. Ring		
iv. Bus		
d. _____ is based on coding theory	CO2	PO1
i. FDMA		
ii. TDMA		
iii. CDMA		
iv. None		
e. The application layer protocol used by a Telnet application is _____	CO1	PO1
i. Telnet		
ii. FTP		
iii. HTTP		
iv. SMTP		
f. The entire hostname has a maximum of _____	CO3	PO1
i. 255		
ii. 127		
iii. 63		
iv. 31		
g. UDP stands for _____	CO3	PO1
i. User Datagram Protocol		
ii. User Defined Protocol		
iii. Union Data Protocol		
iv. User Data Protocol		
h. FTP server listens for connection on port number _____	CO4	PO1
i. 20		
ii. 21		
iii. 22		
iv. 23		
i. The key size of DES is:	CO4	PO1
i. 56 bits		
ii. 64 bits		
iii. 128 bits		
iv. 168 bits		
j. Which of the following is TELNET command?	CO4	PO1
i. WILL		
ii. ls		
iii. pwd		
iv. find		

PART – B: (Short Answer Questions)

(2 x 10 = 20 Marks)

Q.2. Answer ALL questions

	CO #	PO #
a. Differentiate between LAN, MAN and WAN.	CO1	PO1
b. Write the two responsibilities of data-link layer.	CO1	PO2

c. What is flow control and error control?	CO2	PO1
d. What is Bridge? How it works?	CO2	PO1
e. What is IPv4 and IPv6?	CO2	PO1
f. Which layers are missing in TCP/IP model?	CO3	PO2
g. Define TCP.	CO3	PO1
h. Explain FTP Protocol.	CO3	PO1
i. Write a short note on UDP.	CO4	PO1
j. What is DHCP?	CO4	PO2

PART – C: (Long Answer Questions)

(10 x 4 = 40 Marks)

	Marks	CO #	PO #
<u>Answer ALL questions</u>			
3.a. What is the difference between simplex, half-duplex and full-duplex transmission modes?	5	CO1	PO1
b. Explain different types of switching techniques.	5	CO1	PO2
(OR)			
c. Explain all the layers of OSI Model briefly.	10	CO1	PO2
4.a. How Go-back-N ARQ s different from stop and wait ARQ?	10	CO2	PO1
(OR)			
b. Explain the Point to Point Protocol in detail.	5	CO2	PO2
c. What is the difference between random access and control access?	5	CO2	PO3
5.a. What is Bluetooth explain briefly with its architecture.	10	CO3	PO2
(OR)			
b. What is Ethernet? Explain different types of Ethernet.	10	CO3	PO2
6.a Explain working of ARP In detail.	5	CO4	PO1
b. Explain TCP briefly.	5	CO4	PO1
(OR)			
c. Define User Datagram Protocol. Explain the working of User Datagram Protocol briefly.	5	CO4	PO1
d. What is internetworking? Explain its types.	5	CO4	PO1

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